| | Query | Databases | Date | |
|---|---|---|---|---|
| 7 | (feedback with coil) and (((micro$2mirror or ((micro adj electr$4 adj mechanic$4) same (mirror or reflect$5)) or (digital adj micro$4 adj mirror) or DMD)) and (electr$5magnet$5)) | USPAT; US-PGPUB; IBM_TDB | 7/10/04 | 13 |
| 6534 | (micro$2mirror or ((micro adj electr$4 adj mechanic$4) same (mirror or reflect$5)) or (digital adj micro$4 adj mirror) or DMD) | USPAT; US-PGPUB; IBM_TDB | 7/10/04 | 13 |
| 1166 | ((micro$2mirror or ((micro adj electr$4 adj mechanic$4) same (mirror or reflect$5)) or (digital adj micro$4 adj mirror) or DMD)) and (electr$5magnet$5) | USPAT; US-PGPUB; IBM_TDB | 7/10/04 | 13 |
| 328735 | (mirror or micro$2mirror or (micro adj electr$4 adj mechanic$4) or (digital adj micro$4 adj mirror) or DMD) | USPAT; US-PGPUB; IBM_TDB | 7/10/04 | 13 |
| 9536 | (micro$2mirror or (micro adj electr$4 adj mechanic$4) or (digital adj micro$4 adj mirror) or DMD) | USPAT; US-PGPUB; IBM_TDB | 7/10/04 | 13 |
| 1654 | coil same magnet same (mirror or micro$2mirror or (micro adj electr$4 adj mechanic$4) or (digital adj micro$4 adj mirror) or DMD) | USPAT; US-PGPUB; IBM_TDB | 7/10/04 | 13 |
| 32 | feedback with (excitation adj coil) | USPAT; US-PGPUB; IBM_TDB | 7/10/04 | 13 |
| 5679 | feedback with coil | USPAT; US-PGPUB; IBM_TDB | 7/10/04 | 13 |
| 2 | ((359/239).CCLS.) and (feedback with coil) | USPAT; US-PGPUB; IBM_TDB | 7/10/04 | 13 |
| 2 | (feedback with (excitation adj coil)) and mirror | USPAT; US-PGPUB; IBM_TDB | 7/10/04 | 13 |
| 89 | (359/239).CCLS. | USPAT; US-PGPUB; IBM_TDB | 7/10/04 | 13 |
| 0 | (feedback with (excitation adj coil)) and magnte$5 | USPAT; US-PGPUB; IBM_TDB | 7/10/04 | 13 |
| 25 | feedback same angle same deflection same coil | USPAT; US-PGPUB; IBM_TDB | 3/19/04 | 15 |
| 317 | feedback same angle same deflection | USPAT; US-PGPUB; IBM_TDB | 3/19/04 | 15 |
| 120 | (feedback same angle same deflection) and (mirror or micro$2mirror or (micro adj electr$4 adj mechanic$4) or (digital adj micro$4 adj mirror) or DMD) | USPAT; US-PGPUB; IBM_TDB | 3/19/04 | 15 |
| 12 | (feedback same angle same deflection) and (micro$2mirror or (micro adj electr$4 adj mechanic$4) or (digital adj micro$4 adj mirror) or DMD) | USPAT; US-PGPUB; IBM_TDB | 3/19/04 | 15 |
| 88 | ((feedback same angle same deflection) and (mirror or micro$2mirror or (micro adj electr$4 adj mechanic$4) or (digital adj micro$4 adj mirror) or DMD)) not 359/$.ccls. | USPAT; US-PGPUB; IBM_TDB | 3/19/04 | 15 |
| 3 | ((338/47).CCLS.) and torsion and angle | USPAT; US-PGPUB; IBM_TDB | 3/19/04 | 15 |
| 1 | ("5648618").PN. | USPAT; US-PGPUB; IBM_TDB | 3/19/04 | 15 |
| 177 | (338/47).CCLS. | USPAT; US-PGPUB; IBM_TDB | 3/19/04 | 15 |
| 6 | 6392220.URPN. | USPAT | 3/19/04 | 11 |
| 51 | 5648618.URPN. | USPAT | 3/19/04 | 11 |
| 1 | ("6580846").PN. | USPAT; US-PGPUB; IBM_TDB | 3/19/04 | 10 |
| 1 | ("6044705").PN. | USPAT; US-PGPUB; IBM_TDB | 3/19/04 | 10 |
| 5 | ("4365863" \| "5524153" \| "6097858" \| "6210401" \| "6344912").PN. | USPAT | 3/19/04 | 10 |
| 0 | 6580846.URPN. | USPAT | 3/19/04 | 10 |
| 30 | (magnet$5 adj actuator) and micromirror | USPAT; US-PGPUB; IBM_TDB | 3/19/04 | 10 |
| 4 | 6181460.URPN. | USPAT | 3/19/04 | 10 |
| 10 | (("4479388") or ("5283491") or ("5606447") or ("5644177") or ("5867302") or ("6028689") or ("6094293") or ("6300733") or ("6369400") or ("6483962")).PN. | USPAT; US-PGPUB; IBM_TDB | 3/19/04 | 10 |
| 1 | ("5778513").PN. | USPAT; US-PGPUB; IBM_TDB | 3/19/04 | 10 |
| 0 | 6369400.URPN. | USPAT | 3/19/04 | 10 |
| 1 | 6313905.PN. | USPAT | 3/19/04 | 10 |
| 28 | (array near2 mirror) and gimbal and coils and magnets | USPAT; US-PGPUB; IBM_TDB | 3/19/04 | 10 |
| 31 | 5969465.URPN. | USPAT | 3/9/04 | 15 |
| 23 | 5543956.URPN. | USPAT | 3/9/04 | 15 |
| 7 | 5107366.URPN. | USPAT | 3/9/04 | 15 |
| 486 | electromagnetic same magnet same (mirror or micro$2mirror or (micro adj electr$4 adj mechanic$4) or (digital adj micro$4 adj mirror) or DMD or pixel) | USPAT; US-PGPUB; IBM_TDB | 3/9/04 | 15 |

| | Query | Databases | Date |
|---|---|---|---|
| 64 | (((359/223-226,290-291,295,298,302,315,318,850,871,872,877) or (345/55,85,108,111)).CCLS.) and (electromagnetic same magnet same (mirror or micro$2mirror or (micro adj electr$4 adj mechanic$4) or (digital adj micro$4 adj mirror) or DMD or pixel)) | USPAT; US-PGPUB; IBM_TDB | 3/9/04 15 |
| 61 | ((((359/223-226,290-291,295,298,302,315,318,850,871,872,877) or (345/55,85,108,111)).CCLS.) and (electromagnetic same magnet same (mirror or micro$2mirror or (micro adj electr$4 adj mechanic$4) or (digital adj micro$4 adj mirror) or DMD or pixel))) and coil$3 | USPAT; US-PGPUB; IBM_TDB | 3/9/04 15 |
| 411991 | (mirror or micro$2mirror or (micro adj electr$4 adj mechanic$4) or (digital adj micro$4 adj mirror) or DMD or pixel) | USPAT; US-PGPUB; IBM_TDB | 3/9/04 15 |
| 25 | ((((mirror or micro$2mirror or (micro adj electr$4 adj mechanic$4) or (digital adj micro$4 adj mirror) or DMD or pixel)) and (feedback with deflection with detect$5)) and mirror) and magnet | USPAT; US-PGPUB; IBM_TDB | 3/9/04 15 |
| 108 | ((mirror or micro$2mirror or (micro adj electr$4 adj mechanic$4) or (digital adj micro$4 adj mirror) or DMD or pixel)) and (feedback with deflection with detect$5) | USPAT; US-PGPUB; IBM_TDB | 3/9/04 15 |
| 94 | (((mirror or micro$2mirror or (micro adj electr$4 adj mechanic$4) or (digital adj micro$4 adj mirror) or DMD or pixel)) and (feedback with deflection with detect$5)) and mirror | USPAT; US-PGPUB; IBM_TDB | 3/9/04 15 |
| 22 | ((mirror or micro$2mirror or (micro adj electr$4 adj mechanic$4) or (digital adj micro$4 adj mirror) or DMD or pixel)) and (feedback with angular with deflection) | USPAT; US-PGPUB; IBM_TDB | 3/9/04 15 |
| 464 | ((mirror or micro$2mirror or (micro adj electr$4 adj mechanic$4) or (digital adj micro$4 adj mirror) or DMD or pixel)) and (feedback with deflection) | USPAT; US-PGPUB; IBM_TDB | 3/9/04 15 |
| 15 | ("4229081" | "4317611" | "4580873" | "4725127" | "5042889" | "5216490" | "5579148" | "5729642" | "5808780" | "5912608" | "5923798" | "5956292" | "6005993" | "6031947" | "6049404").PN. | USPAT | 3/9/04 14 |
| 6 | 6388789.URPN. | USPAT | 3/9/04 14 |
| 1 | ("5912608").PN. | USPAT; US-PGPUB; IBM_TDB | 3/9/04 14 |
| 1 | ("5629790").PN. | USPAT; US-PGPUB; IBM_TDB | 3/9/04 14 |
| 30 | 6201629.URPN. | USPAT | 3/9/04 13 |
| 2 | ("5606447" | "5912608").PN. | USPAT | 3/9/04 13 |
| 0 | 6122089.URPN. | USPAT | 3/9/04 13 |
| 34 | (((mirror or micro$2mirror or (micro adj electr$4 adj mechanic$4) or (digital adj micro$4 adj mirror) or DMD or pixel)) and ((electro$2magnetic adj actuator) same (permanent adj magnet))) and array | USPAT; US-PGPUB; IBM_TDB | 3/9/04 13 |
| 16 | 5912608.URPN. | USPAT | 3/9/04 13 |
| 353 | (electro$2magnetic adj actuator) same (permanent adj magnet) | USPAT; US-PGPUB; IBM_TDB | 3/9/04 13 |
| 79 | ((mirror or micro$2mirror or (micro adj electr$4 adj mechanic$4) or (digital adj micro$4 adj mirror) or DMD or pixel)) and ((electro$2magnetic adj actuator) same (permanent adj magnet)) | USPAT; US-PGPUB; IBM_TDB | 3/9/04 13 |
| 15 | (((359/223-226,290-291,295,298,302,315,318,850,871,872,877) or (345/55,85,108,111)).CCLS.) and (((micro$2mirror or ((micro adj electr$4 adj mechanic$4) with mirror) or (digital adj micro$4 adj mirror) or DMD or pixel)) and (electro$2magnetic adj actuator)) | USPAT; US-PGPUB; IBM_TDB | 3/9/04 13 |
| 122 | ((micro$2mirror or ((micro adj electr$4 adj mechanic$4) with mirror) or (digital adj micro$4 adj mirror) or DMD or pixel)) and (electro$2magnetic adj actuator) | USPAT; US-PGPUB; IBM_TDB | 3/9/04 13 |
| 127347 | (micro$2mirror or ((micro adj electr$4 adj mechanic$4) with mirror) or (digital adj micro$4 adj mirror) or DMD or pixel) | USPAT; US-PGPUB; IBM_TDB | 3/9/04 13 |
| 4537 | electro$2magnetic adj actuator | USPAT; US-PGPUB; IBM_TDB | 3/9/04 13 |
| 15 | ("4229732" | "4441791" | "5172262" | "5311360" | "5517359" | "5610757" | "5661592" | "5748172" | "5768009" | "5867302" | "5926309" | "5999303" | "6025951" | "6028689" | "6445502" | "2001/0028756" | "2002/0031305").PN. | USPAT | 3/9/04 11 |
| 3 | ("4421381" | "5629790" | "5748172").PN. | USPAT | 3/9/04 11 |

| | | | |
|---:|---|---|---|
| 16 | Asada-Norihiro.in. and mirror | EPO; JPO | 3/9/04 11 |
| 1 | ("5748172").PN. | USPAT; US-PGPUB; IBM_TDB | 3/9/04 11 |
| 1 | 50950 | EPO; JPO | 3/9/04 11 |
| 66 | Asada-Norihiro.in. | EPO; JPO | 3/9/04 11 |
| 1 | WO00/50950 | USPAT; US-PGPUB; IBM_TDB | 3/9/04 11 |
| 0 | WO00/50950 | EPO; JPO | 3/9/04 11 |
| 13 | ((345/111).CCLS.) and mirror | USPAT; US-PGPUB; IBM_TDB | 3/9/04 11 |
| 6 | 5748172.URPN. | USPAT | 3/9/04 11 |
| 108 | (345/111).CCLS. | USPAT; US-PGPUB; IBM_TDB | 3/9/04 10 |
| 3964 | (((359/223-226,290-291,295,298,302,315,318,850,871,872,877) or (345/55,85,108,111)).CCLS.) and ((mirror or micro$2mirror or (micro adj electr$4 adj mechanic$4) or (digital adj micro$4 adj mirror) or DMD or pixel)) | USPAT; US-PGPUB; IBM_TDB | 3/9/04 10 |
| 4 | ("5498312" \| "5606447" \| "6295154" \| "6430332" \| "2001/0022682" \| "2002/0018615" \| "2002/0034024" \| "2002/0034026" \| "2002/0070335" \| "2002/0074310" \| "2002/0075553" \| "2002/0118429").PN. | USPAT | 3/9/04 10 |
| 315435 | (mirror or micro$2mirror or (micro adj electr$4 adj mechanic$4) or (digital adj micro$4 adj mirror) or DMD) | USPAT; US-PGPUB; IBM_TDB | 3/9/04 10 |
| 31071 | (micro$2mirror or ((micro adj electr$4 adj mechanic$4) with mirror) or (digital adj micro$4 adj mirror) or DMD or pixel) with array | USPAT; US-PGPUB; IBM_TDB | 3/9/04 10 |
| 39 | ((micro$2mirror or ((micro adj electr$4 adj mechanic$4) with mirror) or (digital adj micro$4 adj mirror) or DMD) with array) and ((coil or winding) same magnet) | USPAT; US-PGPUB; IBM_TDB | 3/9/04 10 |
| 677 | (((359/223-226,290-291,295,298,302,315,318,850,871,872,877) or (345/55,85,108,111)).CCLS.) and ((micro$2mirror or ((micro adj electr$4 adj mechanic$4) with mirror) or (digital adj micro$4 adj mirror) or DMD or pixel) with array) | USPAT; US-PGPUB; IBM_TDB | 3/9/04 10 |
| 0 | ((coil or winding) same (array near2 magnet)) and (((((359/223-226,290-291,295,298,302,315,318,850,871,872,877) or (345/55,85,108,111)).CCLS.) and ((micro$2mirror or ((micro adj electr$4 adj mechanic$4) with mirror) or (digital adj micro$4 adj mirror) or DMD or pixel) with array)) | USPAT; US-PGPUB; IBM_TDB | 3/9/04 10 |
| 0 | ((coil or winding) same (array near2 magnet)) and (((micro$2mirror or ((micro adj electr$4 adj mechanic$4) with mirror) or (digital adj micro$4 adj mirror) or DMD) with array) and ((coil or winding) same magnet)) | USPAT; US-PGPUB; IBM_TDB | 3/9/04 10 |
| 21 | (((((359/223-226,290-291,295,298,302,315,318,850,871,872,877) or (345/55,85,108,111)).CCLS.) and ((micro$2mirror or ((micro adj electr$4 adj mechanic$4) with mirror) or (digital adj micro$4 adj mirror) or DMD or pixel) with array)) and ((coil or winding) same magnet) | USPAT; US-PGPUB; IBM_TDB | 3/9/04 10 |
| 4308 | (359/223-226,290-291,295,298,302,315,318,850,871,872,877).CCLS. | USPAT; US-PGPUB; IBM_TDB | 3/9/04 10 |
| 1640 | (micro$2mirror or ((micro adj electr$4 adj mechanic$4) with mirror) or (digital adj micro$4 adj mirror) or DMD) with array | USPAT; US-PGPUB; IBM_TDB | 3/9/04 10 |
| 4992 | ((359/223-226,290-291,295,298,302,315,318,850,871,872,877) or (345/55,85,108,111)).CCLS. | USPAT; US-PGPUB; IBM_TDB | 3/9/04 10 |
| 638 | (coil or winding) same (array near2 magnet) | USPAT; US-PGPUB; IBM_TDB | 3/9/04 10 |
| 0 | ((coil or winding) same (array near2 magnet)) and ((micro$2mirror or ((micro adj electr$4 adj mechanic$4) with mirror) or (digital adj micro$4 adj mirror) or DMD) with array) | USPAT; US-PGPUB; IBM_TDB | 3/9/04 10 |
| 14 | ((coil or winding) same (array near2 magnet)) and ((micro$2mirror or ((micro adj electr$4 adj mechanic$4) with mirror) or (digital adj micro$4 adj mirror) or DMD or pixel)) | USPAT; US-PGPUB; IBM_TDB | 3/9/04 10 |

| # | Query | Database | Date | Time |
|---|---|---|---|---|
| 127345 | ((micro$2mirror or ((micro adj electr$4 adj mechanic$4) with mirror) or (digital adj micro$4 adj mirror) or DMD or pixel)) not (((359/223-226,290-291,295,298,302,315,318,850,871,872,877).CCLS.) and ((mirror or micro$2mirror or (micro adj electr$4 adj mechanic$4) or (digital adj micro$4 adj mirror) or DMD)) and ((coil or winding) same (array near2 magnet))) | USPAT; US-PGPUB; IBM_TDB | 3/9/04 | 10 |
| 12 | (((coil or winding) same (array near2 magnet)) and ((micro$2mirror or ((micro adj electr$4 adj mechanic$4) with mirror) or (digital adj micro$4 adj mirror) or DMD or pixel))) not (((359/223-226,290-291,295,298,302,315,318,850,871,872,877).CCLS.) and ((mirror or micro$2mirror or (micro adj electr$4 adj mechanic$4) or (digital adj micro$4 adj mirror) or DMD)) and ((coil or winding) same (array near2 magnet))) | USPAT; US-PGPUB; IBM_TDB | 3/9/04 | 10 |
| 3 | ((359/223-226,290-291,295,298,302,315,318,850,871,872,877).CCLS.) and ((mirror or micro$2mirror or (micro adj electr$4 adj mechanic$4) or (digital adj micro$4 adj mirror) or DMD)) and ((coil or winding) same (array near2 magnet)) | USPAT; US-PGPUB; IBM_TDB | 3/9/04 | 10 |
| 52 | (coil same magnet same (mirror or micro$2mirror or (micro adj electr$4 adj mechanic$4) or (digital adj micro$4 adj mirror) or DMD or (spatial adj light adj modulator) or SLM)) and (array near2 magnets) | USPAT; US-PGPUB; IBM_TDB | 3/9/04 | 10 |
| 1 | 6144119.URPN. | USPAT | 3/9/04 | 8 |
| 10 | ("3851196" | "4555650" | "4654571" | "5153494" | "5196745" | "5334892" | "5528118" | "5623853" | "5715037" | "5773837").PN. | USPAT | 3/9/04 | 8 |
| 104 | (coil same magnet same (mirror or micro$2mirror or (micro adj electr$4 adj mechanic$4) or (digital adj micro$4 adj mirror) or DMD or (spatial adj light adj modulator) or SLM)) and (inner same outer same frame) | USPAT; US-PGPUB; IBM_TDB | 3/9/04 | 8 |
| 1 | ((coil same magnet same (mirror or micro$2mirror or (micro adj electr$4 adj mechanic$4) or (digital adj micro$4 adj mirror) or DMD or (spatial adj light adj modulator) or SLM)) and (inner same outer same frame)) and (array near2 magnets) | USPAT; US-PGPUB; IBM_TDB | 3/9/04 | 8 |
| 115 | (coil same magnet same (mirror or micro$2mirror or (micro adj electr$4 adj mechanic$4) or (digital adj micro$4 adj mirror) or DMD or (spatial adj light adj modulator) or SLM)) and gimbal | USPAT; US-PGPUB; IBM_TDB | 3/9/04 | 8 |
| 1658 | coil same magnet same (mirror or micro$2mirror or (micro adj electr$4 adj mechanic$4) or (digital adj micro$4 adj mirror) or DMD or (spatial adj light adj modulator) or SLM) | USPAT; US-PGPUB; IBM_TDB | 3/9/04 | 8 |
| 8 | ((coil same magnet same (mirror or micro$2mirror or (micro adj electr$4 adj mechanic$4) or (digital adj micro$4 adj mirror) or DMD or (spatial adj light adj modulator) or SLM)) and gimbal) and (array with magnets) | USPAT; US-PGPUB; IBM_TDB | 3/9/04 | 8 |